

New Species of Dolichopodidae from North America (Diptera).

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***Rhaphium latifacies* new species.**

♂ : Length 4 mm. Face wide, silvery white, rounded below, its sides nearly parallel; proboscis and palpi black with black hairs and bristles; front covered with white pollen; antennae black, third joint half as long as the face, arista two-and-one-half times as long as third joint; beard white, moderately abundant.

Dorsum of thorax green, dulled with white pollen; pleurae blackish with white pollen; scutellum with two pair of marginal bristles. Abdomen blue-green with black hair and considerable white pollen, hairs on the venter whitish; hypopygium black, rounded above, conspicuous, its lamellae black, elongate triangular, one-third as long as height of hypopygium, inner appendages small, mostly concealed.

Fore coxae, all femora and tibiae yellow; apical third of hind femora and extreme tip of posterior tibiae black; fore coxae with black hair and bristles, both hair and bristles appear yellow in certain lights; middle coxae without a thorn at tip; all femora with pale hairs below, but these also appear black in certain lights and are not as long as width of femora; fore femora with long pale hairs on posterior surface; fore and middle tarsi from the tip of the first joint and whole of hind tarsi black; all tarsi plain; joints of fore tarsi as 41-14-13-10-10; of middle ones as 54-18-15-8-7; joints of hind pair as 41-27-20-10-9. Calypters, their cilia and the halteres yellow.

Wings grayish, darker in front of fourth vein; third vein bent backward towards the tip; last section of fourth vein quite sharply bent before its middle, parallel with third for a short distance at tip, ending just back of the apex of the wing; last section of fifth vein straight, twice as long as the crossvein.

Described from one male, taken by Owen Bryant, July 10, 1925, at Lake Agnes, Laggan, Alberta, at an elevation of 6,800 feet. *Type* in the U. S. National Museum. No. 20578.

***Rhaphium longibara* new species.**

♂ : length 4 mm. Face narrow, silvery white; palpi and proboscis black; front shining green; antennae black, third joint four-fifths, arista six-sevenths, as long as the face; beard white, abundant but not very long.

Thorax green with a little white pollen on front of dorsum and on pleurae; scutellum with one pair of bristles. Abdomen shining green, its hair black on dorsum, white on venter, third, fourth and fifth segments coppery at base; hypopygium black, rather small, flattened posteriorly, its lamellae filiform, broader at base, brown, fringed with long pale hairs, the lamellae as long as middle tibiae; inner appendages black, slender with a conspicuous lobe on one side near the tip, a little less than two-fifths as long as height of hypopygium.

All coxae, fore and middle femora and apical two-thirds of hind femora green; tips of fore and middle femora, basal third of hind ones and fore and middle tibiae and basitarsi yellow; hind tibiae mostly black, yellowish above on basal third; fore and middle tarsi from tip of second joint and whole of hind tarsi black, fore coxae with abundant, long, white hair; middle coxae with a black thorn at tip; middle femora with short white hair below; fore tibiae with two rows of long, bristly, black hairs on upper surface, these are as long as width of femora; middle basitarsus with three long bristles below near the base, the longest being three times as long as diameter of the joint; first joint of fore tarsi concave below, being narrowed in the middle, larger at each end and with a row of spine-like, short hairs below, which are about as long as diameter of joint; second joint a little widened in the middle below, the lower edge being slightly and evenly rounded, it has a row of delicate hairs below, which are a little shorter than width of joint in the middle, joints of fore tarsi as 33-25-8-6-8; of middle ones as 43-23-15-8-8; joints of hind ones as 35-29-21-17-11; Calypters and halteres yellow, the former with white cilia.

Wings grayish; third vein bent backward towards the tip; last section of fourth vein without a distinct bend, but arched so as to be parallel with third at tip, ending in the apex of the wing; last section of fifth vein straight, scarcely reaching the wing margin, it is 38, crossvein 20-fiftieths of a millimeter long.

♀: One female taken two days later at the same place, is no doubt the same species; having the venation of the wings the same; the color of the legs about the same and the fore coxae with long white hair.

Its face broad, silvery white; third antennal joint one-third, arista one and a fourth times as long as the face; fore tibiae with one row of bristly hairs above on anterior edge; middle femora at extreme base, basal half of hind femora and basal three-fourths of hind tibiae yellow; fore and middle tarsi plain.

Described from one pair, taken at Banff, Alberta; *type*, male, on June 29, *allotype*, female, July 4, 1925, by Owen Bryant. The allotype was taken on Norquay Mt., at an elevation of 5,000-6,000 feet. Type in U. S. N. M., No. 20579.

***Neurigona ornatus* new species.**

♂ : Length 4.5 mm. Face linear, silvery white; front and occiput black with white pollen; antennae yellow, small; orbital cilia whitish yellow. Thorax black; prothorax, humeri, posterior edge of pleurae, outer margin of scutellum, root of wings and some of the sutures of the thorax yellow; dorsum of thorax dulled with gray pollen, especially the depressed space before the scutellum. Abdomen yellow with large shining black patches on the upper surface, that on second segment covering all the dorsum, except the posterior margin, on the following segments the black is more narrowed posteriorly. Hypopygium black, the basal part appearing more like an apical segment of the abdomen, outer part somewhat square in outline and with small, indistinct, yellowish appendages at tip.

Coxae, femora and tibiae yellow; fore tarsi with first three joints yellow, last two black, flattened, fourth nearly round when seen from above, fifth oval, longer than wide, cut off nearly straight at tip, one claw long and enlarged; all joints with long hairs above, which are about twice as long as the diameter of the joint, those on first joint a little shorter; middle and hind tarsi blackened from the tip of first joint; first four joints of middle tarsi with a row of stiff black hairs below, these are a little longer than the diameter of the joints; joints of fore tarsi as 103-64-28-8-12; width of last joint at tip as 10 and length of long claw the same; joints of middle tarsi as 137-48-30-19-12; of hind ones as 67-68-36-22-12. Calypters, their cilia and the halteres yellow.

Wings gray, veins brown almost to the root of the wing; last section of fourth vein bent near its middle, ending rather close to tip of third and considerably before the apex of the wing, third and fourth veins bent backward at tip; last section of fifth vein about three times as long as the crossvein; sixth vein strong and reaching the wing margin; anal angle of wing prominent.

Described from one male, taken by Owen Bryant, June 5, 1925, at Edmonton, Alberta, Canada. *Type* in the U. S. National Museum. No. 20580.

This is separated from all related species by the form of the anterior tarsi and their enlarged claw.

(To be continued)